

REVAMP8250

Instruction manual

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IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions
2. Keep these instructions
3. Pay attention to all warnings
4. Follow all instructions
5. This professional device needs to be installed by qualified personnel only.
6. Danger: Exposure to high sound levels may cause a permanent hearing loss. Individuals vary considerably to sound pressure level induced hearing loss but nearly everyone will lose some hearing if exposed to high sound pressure levels for a sufficient amount of time. Therefore it is recommended that all persons exposed to equipment capable of producing high sound pressure levels, such as this amplifier, be protected by hearing protection while installing or operating this unit.
7. Make sure to only use power outlets conform to the power requirements listed on the back of the unit.
8. Do not connect the inputs / outputs of amplifiers or consoles to any other voltage source, such as a battery, mains source, or power supply, regardless of whether the amplifier or console is turned on or off.
9. Do not drive the inputs with a signal level higher than that required to drive equipment to full output.
10. Do not run the output of any amplifier back into another input.
11. This unit has NOT been designed for use in mobile applications, such as: mobile discobars, mobile PA systems, Live bands, audio rental systems, ... Using it in such application will lead to product damages and safety risks.
12. Do not use this apparatus near water
13. Clean only with dry cloth.
14. Do not block any ventilation openings. Install in accordance with the manufacturer instructions.

15. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
16. Do not defeat the safety purpose of the polarized or grounding plug. Always use the device with a grounded mains power plug. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
17. Protect the power cord from being walked on, pinched or damaged. Particularly at the plugs, connectors and at the point where they exit from the apparatus.
18. Only use attachments/accessories specified by the manufacturer.
19. Unplug the apparatus during lightning storms or when unused for long periods of time.
20. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



21. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
22. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
23. **WARNING:** The mains plug/appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.



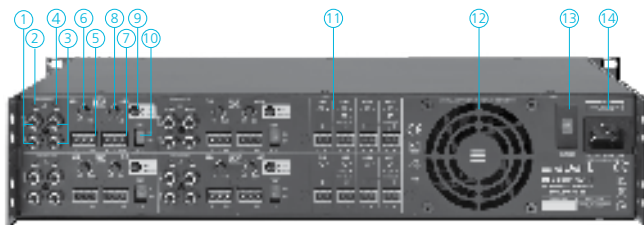
24. This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.
- Warning: To reduce the risk of electric shock, do not remove cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.
 - The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.
25.  Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.
26.  Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.
27. No naked flame sources, such as lighted candles, should be placed on the apparatus.
28. Do not install this equipment in a confined or building-in space such as a book case or similar unit, and remain a well ventilation conditions at open site. The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, table-cloths, curtains etc.

Features

- 19", 2 rack units high.
- 8 output channels powered with class-D amplifiers.
- 8 x 250 watts (4 ohms) or 4 x 500 watts (8 ohms) RMS.
- Switching mode power supply.
- Intelligent thermal power limiting circuit: limits the output power to a safe limit whenever a thermal overload occurs.
- Very high channel separation.
- Input signal clip indicators on the rear for fast and easy configuration of the input gain.
- Versatile LED status indicators on the front.
- Unbalanced RCA input and Balanced euroblock input for each input.
- Input level attenuators on all inputs.
- Switchable high pass filter on each input (250 Hz).
- Extended speaker and amp protection circuits: over current protect, over temperature protect and DC protect.
- Cooling fan.
- Integrated APC limiter.
- Removable rack-ears.

Note: the integrated APC limiter will automatically limit the incoming audio signal to avoid overloads. This feature cannot be defeated and acts as a lifesaver for your valuable speakers.

Connections



Only channel 1 and 2 are explained. Channels 3 to 8 are functionally identical to 1 and 2.

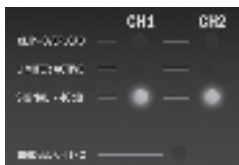
1. **Channel 2 unbalanced input and link RCA connector:** connect the line level input signal for channel 2 here. Line level is 0 dBV. Input and link RCA connector are internally connected 1 to 1.
2. **Channel 2 overload led:** when this led lights up, you are overloading the input. Lower the input signal immediately to prevent the amplifier from shutting down.
3. **Channel 1 unbalanced input and link RCA connector:** connect the line level input signal for channel 1 here. Line level is 0 dBV. Input and link RCA connector are internally connected 1 to 1. This connector is also used in the bridge mode.
4. **Channel 1 overload led:** when this led lights up, you are overloading the input. Lower the input signal immediately to prevent the amplifier from shutting down.

5. **Channel 2 balanced input on 3 pole euroblock connector:** connect the line level input signal for channel 2 here. Line level is 0 dBV.
6. **Channel 2 input attenuator setting:** Adjust the input attenuator to the output level of your source. Make sure to avoid the clip led lighting up at the strongest input peak level.
7. **Channel 1 balanced input on 3 pole euroblock connector:** connect the line level input signal for channel 1 here. Line level is 0 dBV. This connector is also used in the bridge mode.
8. **Channel 1 input attenuator setting:** Adjust the input attenuator to the output level of your source. Make sure to avoid the clip led lighting up at the strongest input peak level.
9. **Bridge button:** set to channel for normal operation. Set to bridge mode for bridge mode operation.
10. **HPF on/off dipswitch for channels 1 and 2:** Set to on position to enable the 250 Hz high pass filter.
11. **Channel 2 and 1 output on euroblock:** minimal load impedance is 4 Ohms in stereo mode and 8 Ohms in bridge mode.
12. **Fan area:** keep free from dust and obstructions.
13. **Mains voltage selector:** set to 230 or 115VAC according to your local mains voltage.
14. **Mains inlet connector:** connect the mains cable supplied with the unit here.

Operation



1. Removable rack ears for 19" rack mounting.
2. Power switch.
3. Power led
4. Channel 1 – 8 multifunctional led displays.



- Clip – overload led (Red) indicates that the amplifier is overloaded or clipping: reduce the incoming signal immediately to avoid clipping and eventually amplifier shutdown.
- Limiter active (Orange): indicates that the internal limiter is active.
- Signal -40 dB (Green) indicates that a signal is present at the input.
- Bridged led (Yellow) lights up when the bridge mode is selected via the rear panel bridge push button.

Important notice

This amplifier relies on active cooling. In normal situations, overheating will not occur. The unit can be built in a 19" inch rack system, but it is forbidden to block the ventilation holes provided. Therefore, it is absolutely necessary to allow at least one free rack space or 44 mm above and beneath the amplifier. Make sure the ambient temperature is between 0 and 40°C. Operating the unit beyond its normal limits will result in excessive internal temperature. Power amplifiers are hard workers, and their behavior is similar to human beings. In extreme conditions, human beings are not able to perform efficiently. This also applies to amplifiers. It is generally a bad idea to mount multiple heat generating units such as amplifiers in the same rack. If necessary, use an additional forced ventilation system in your mounting rack.

The mains fuse is located inside the unit. When the fuse is broken, replace it with a fuse of the same current and voltage rating: F16AH/250V. For qualified personnel only!

This unit has NOT been designed for use in mobile applications, such as: mobile discobars and DJ setups, mobile PA systems, live bands, audio rental systems, ...

Use it in fixed installations only.

Technical specifications

Dynamic program power at 4 ohms	350 watts
Output power RMS at 4 ohms	250 watts
Output power RMS at 8 ohms (bridged)	500 watts
Load impedance	minimum 4 Ω in stereo mode, minimum 8 Ω in bridge mode
Input connections	Unbalanced on RCA and balanced on euroblock
Input sensitivity	0 dBV (1Vrms)
Input impedance	22 k Ω
S/N ratio	>100 dB A weighted
THD	<0.5% A weighted
Frequency response	20 – 20 kHz $\pm$ 3 dB
Protection circuits	over current, over temperature
Channel separation	>60 dB @ 1 kHz
Power amp topology	class-D

Power supply	switching mode power supply
Cooling	active cooling front to back
Max power consumption	2200 watts
Operating temperature range	0 to 40°C
Mains operating voltage	115-230 VAC (50 Hz - 60 Hz)
Dimensions	483 x 88 x 332 mm (including rack ears)
Net weight	21.7 kg
Gross weight	25.2 kg

